GENERAL NOTES:

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

Expansion bolts shall consist of approved expansion anchors, providing minimum certified proof load = 4.080 lbs., and $^34''\phi$ x 12" hooked bolts.

Reinforcement bars designated (E) shall be epoxy coated.

Exposed edges shall have a $\frac{3}{4}$ " chamfer.

For backfilling and embankment, see Standard Specifications.

The structural repair of concrete depth ≤5" and epoxy crack sealing repairs specified on the plans indicate the minimum amount required for the rehabilitation of Structure No. 016-2400, based on the existing observed conditions. During cleaning of the box culverts, additional areas may be exposed that require high performance enhanced shotcrete and epoxy crack sealing repairs. Any such areas found shall be immediately brought to the attention of the Engineer and shall be repaired as directed by the Engineer. The cost for additional high performance enhanced shotcrete and epoxy crack sealing repairs not shown on the plans shall be paid at the unit price bid for that work.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal. Precast alternate not allowed.

LOADING HS20-44

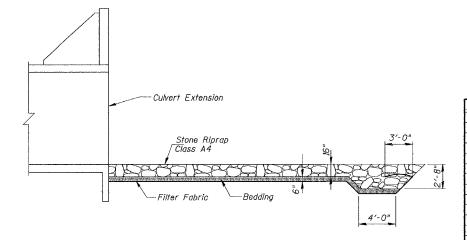
Allow 50#/sq. ft. for future wearing surface

DESIGN SPECIFICATIONS

1996 AASHTO Standard Specifications for Highway Bridges, Including 1997, 1998, 1999 & 2000

DESIGN STRESSES FOR NEW CONSTRUCTION

f'c = 3,500 psi fy = 60,000 psi (reinf.)



STONE RIPRAP ANCHOR DETAIL

| ROUTE NO. | SECTION | COLATY | TOTAL | SHEET | NO. | SECTION | SECTION | SHEET | NO. | SECTION | NO. | SHEET | SHEET | NO. | SHEET | NO. | SHEET | NO. | SHEET | NO. | SHEET | SHEET | NO. | SHEET | NO. | SHEET | NO. | SHEET | NO. | SHEET | SHEET | NO. | SHEET | NO. | SHEET | NO. | SHEET | NO. | SHEET | SHEET | NO. | SHEET | NO. | SHEET | NO. | SHEET | NO. | SHEET | SHEET | NO. | SHEET | SHE

*** (1214 & 3127-1)RS-1

Contract 62343

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.		251.3	251.3
Structure Excavation	Cu. Yd.		3,691	3,691
Concrete Box Culverts	Çu. Yd.		284.2	284.2
Reinforcement Bars	Pound		55,880	55,880
Reinforcement Bars, Epoxy Coated	Pound		3,100	3,100
Stone Riprap, Class A4	Ton		154	154
Temporary Soll Retention System	Sq. Ft.		3,363	3,363
Name Plates	Each		1	1
Filter Fabric	Sq. Yd.		128	128
Epoxy Crack Injection	Foot		180	180
Structural Repair of Concrete Depth <5"	Sq. Ft.		704	704
Gabions	Cu. Yd.		82.0	82.0
Box Culverts to be Cleaned	Foot		421	421
Slope Wall Removal	Sq. Yd.		238,6	238.6
Geotechnical Fabric for French Drains	Sq. Yd.		66	66
Expansion Bolts 34 Inch x 12 inch	Each		112	112

STATION 20+29

RE-BUILT BY

STATE OF ILLINOIS
F.A.P. RT. 348 SEC. (1214 & 3127-1)RS-1

LOADING HS20

STR. NO. 016-2400

NAME PLATE
See Std. 5/5001

LIST OF STRUCTURAL DRAWINGS

TITLE General Plan And Elevation	SHEET S1
General Notes And Bill of Material	<i>\$2</i>
Triple Box Culvert Details-I	S3
Triple Box Culvert Details-II	54
Triple Box Culvert Details-III	<i>S</i> 5
North Barrel Concrete Removal and Repairs	<i>S</i> 6
Center Barrel Concrete Removal and Repairs	<i>S</i> 7
South Barrel Concrete Removal and Repairs	S8
Concrete Removal Sections	59
Channel Maintenance Plan	S10
Gabion Details - I	S11
Gabion Details - II	S12
Soil Borings	S13

-		150'-10" ± (East) 142'-10" ± (West)		-	
	.0 ± (East) .0 ± (West)	Ground Surface/To	op of Soil Retention System	— Maximu Excavo Line	ntion
31'-0" ± (East)	Exposed Surface Area	EI. 647.31 East Exter EI. 649.77 West Exter Limits of Structure Remove	nnsion Line	EI. 632.02 EI. 634.48	2 East Extension 3 West Extension
27'-0" ± (West)				27'-0" ± (West)	
2'-0"-		RARY SOIL RETENTION S		2'-0"	

Note:

A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soll retention system design including plan details and calculations for review and acceptance by the Engineer.

Dimensions are Parallel to & Roadway

COLLINS ENGINEERS, INC.

123 N. WACKER DR.
SUITE 300
CHICAGO, IL. 60606
(312)704-9300
ILLINOIS PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-000993

ILLINOIS DEPARTMENT OF TRANSPORTATION
HARLEM AVENUE (IL. 43) OVER
TINLEY CREEK
TINLEY CREEK
FAP ROUTE 348 SECTION (1214 & 3127-1)RS-1
COOK COUNTY STATION 20+29

CHECKED BY: RAM/DGS

COOK COUNTY STATION 20+29 STRUCTURE NO.016-2400

GENERAL NOTES AND BILL OF MATERIAL DRAWN BY: KAC

DATE: JULY, 2003